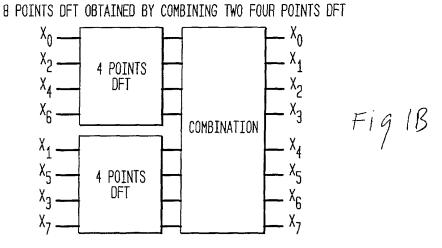
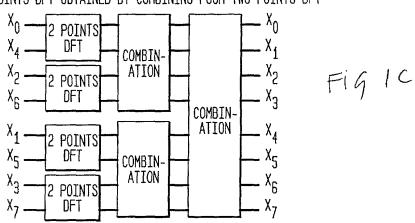


(PRIOR ART)



(PRIOR ART)
8 POINTS DET OBTAINED BY COMBINING FOUR TWO POINTS DET



(PRIOR ART)

DIT RADIX-2 BUTTERFLY COMPUTATION

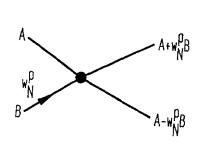


Fig 2A

(PRIOR ART)

DIF RADIX-2 BUTTERFLY COMPUTATION

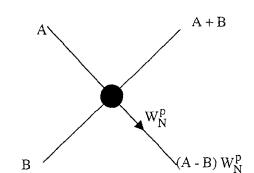


Fig 2AZ

(PRIOR ART)

BUTTERFLIES REPRESENTATION OF AN 8 POINTS FFT

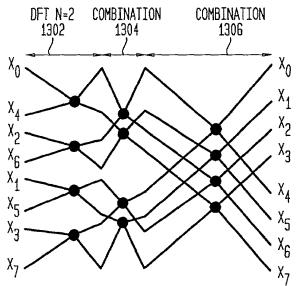
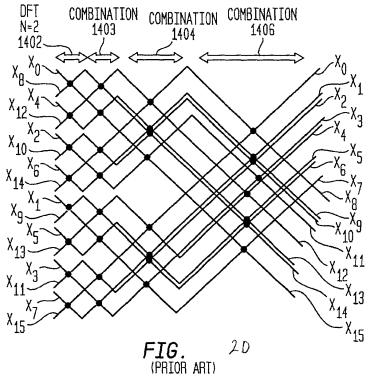
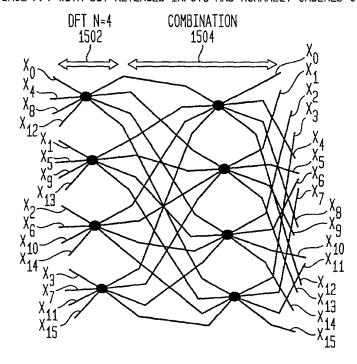


Fig 2B

FIG. $_{\rm (PRIOR\ ART)}$ 2 C $_{\rm (PRIOR\ ART)}$ In place FFT with Bit reversed inputs and normally ordered outputs (r=2)



IN PLACE FFT WITH BIT REVERSED INPUTS AND NORMALLY ORDERED OUTPUTS



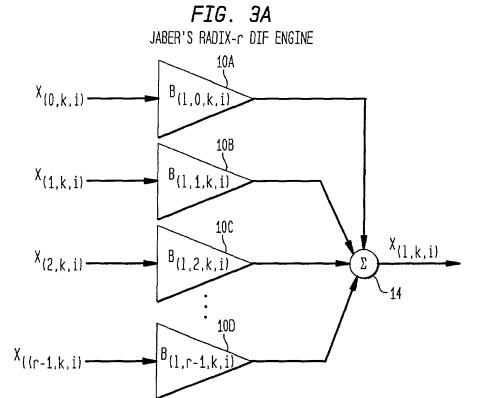


FIG. 3B SIMPLIFIED JABER'S RADIX-r DIF ENGINE

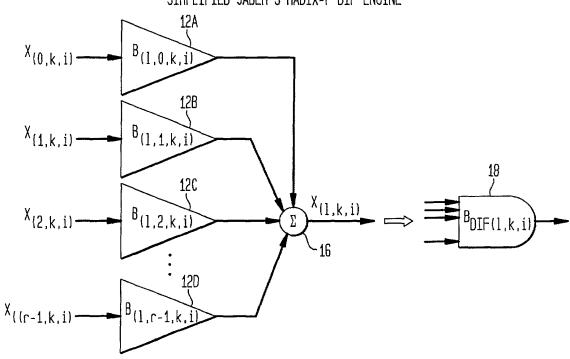


FIG. 4A JABER'S RADIX-r DIT ENGINE

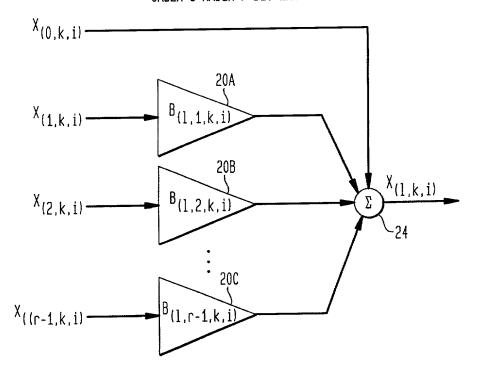


FIG. 4B SIMPLIFIED JABER'S RADIX-r DIT ENGINE

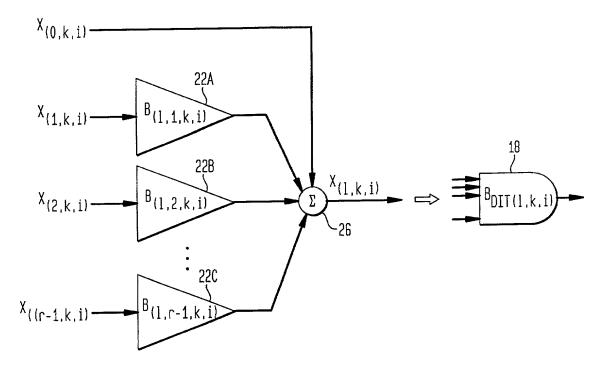


FIG. 5A JABER'S RADIX-r DIF MODULE

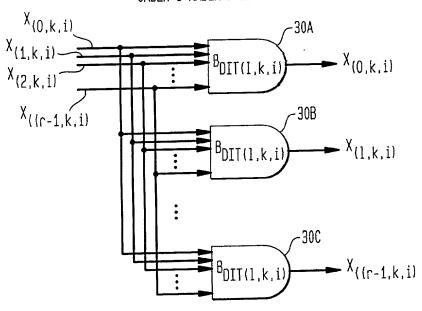


FIG. 5B JABER'S RADIX-r DIT MODULE

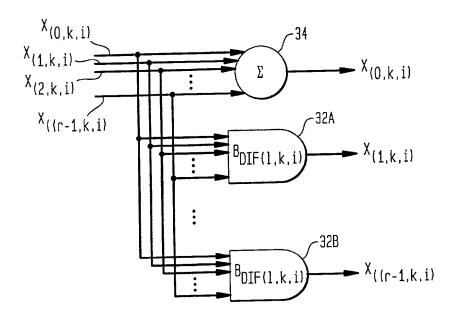
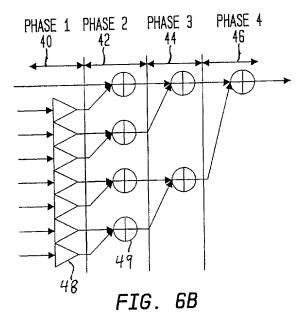
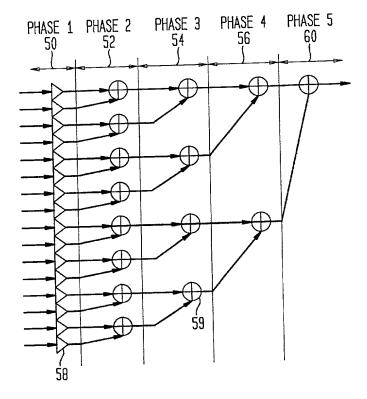


FIG. 6A RADIX-8 DIT FFT ENGINE



RADIX-16 DIF FFT ENGINE



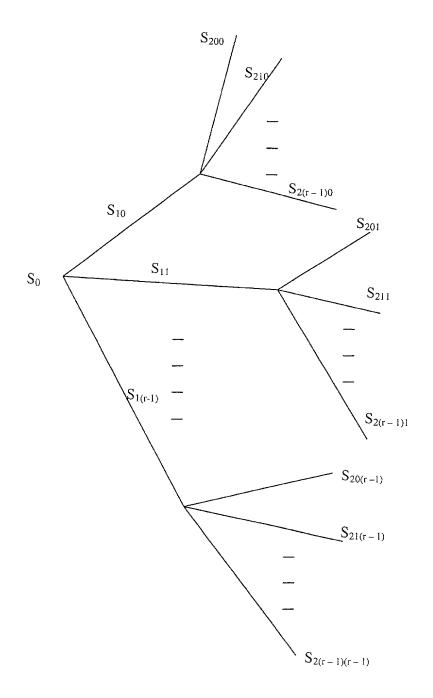


Fig 7

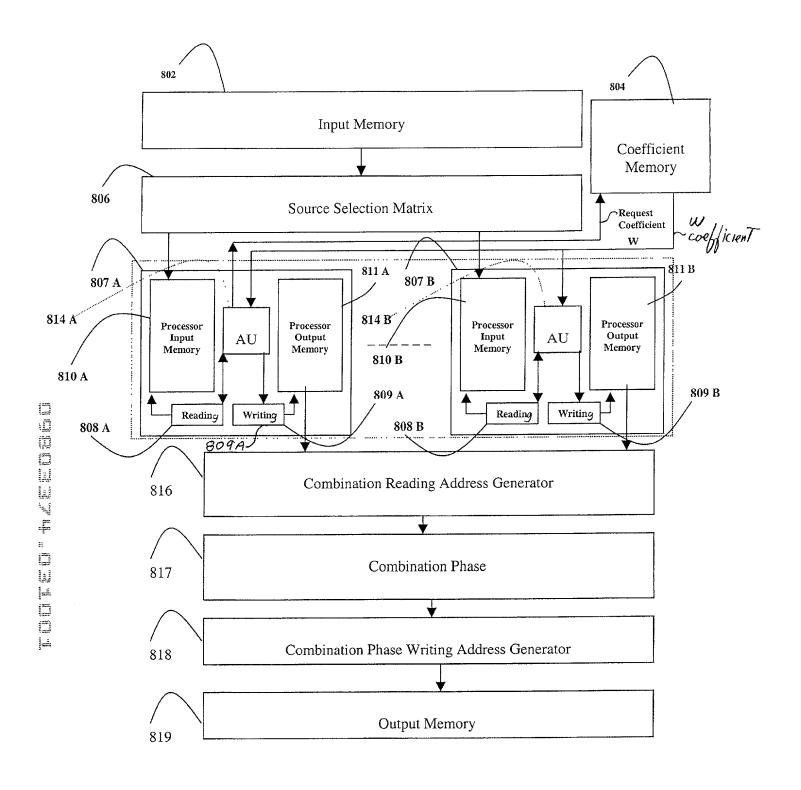


Fig 8

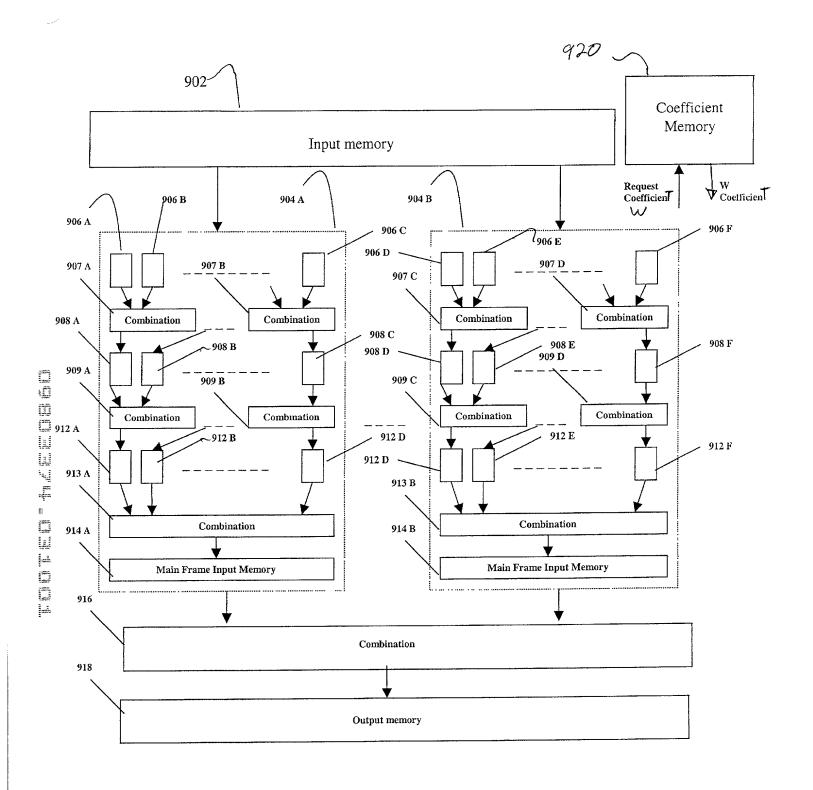
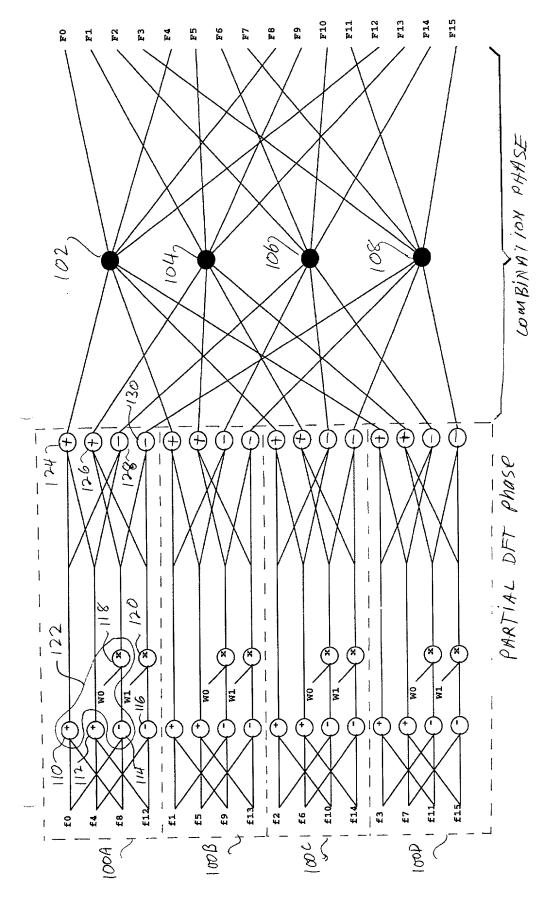


Fig 9



16 Points FFT radix 2 on four parallel processors with combination $ho h a S \mathcal{C}$

FIG 10

16 POINTS FFT MAPPING WITH COMBINATION $\rho + 4$

FIG 11